BRAIN RESEARCH

VOL. 681 NOS. 1,2 **CONTENTS** **29 MAY 1995**

Cited in Biological Abstracts (BIOSIS) – Chem. Abstracts – Index Medicus (MEDLINE) – Current Contents (Life Sci.) – Excerpta Medica (EMBASE) – Psychological Abstracts (PsycINFO) – Pascal et Francis (INIST-CNRS) – RIS (Reference Update) – Current Awareness in Biological Science (CABS)

Research reports

The putative dopamine D_3 agonist, 7-OH-DPAT, reduces dopamine release in the nucleus accumbens and electrical self-stimulation to the ventral tegmentum
D.B. Gilbert, J. Millar and S.J. Cooper (UK) 1

Effects of kainic acid induced seizures on immediate early gene expression in mice with a targeted mutation of the CREB gene
J.A. Blendy, W. Schmid, M. Kiessling, G. Schütz and P. Gass (Germany) 8

Brain distribution of c-*fos* expression as a result of prolonged rapid eye movement (REM) sleep period duration
H. Merchant-Nancy, J. Vázquez, F. García and R. Drucker-Colín (México) 15

Impairments and compensatory adjustments in spontaneous movement after unilateral dopamine depletion in rats
E.I. Miklyaeva, D.J. Martens and I.Q. Whishaw (Canada) 23

Specific binding sites for (3-8)angiotensin in C6 glioma cells
B. Wyse, K. Greenland and C. Sernia (Australia) 41

A study of the effects of noradrenaline in the rat olfactory bulb using evoked field potential response
A.-M. Mouly, A. Elaagouby and N. Ravel (France) 47

Functionally mature olfactory neurons from two anosmic patients with Kallmann syndrome
N.E. Rawson, J.G. Brand, B.J. Cowart, L.D. Lowry, E.A. Pribitkin, V.M. Rao and D. Restrepo (USA) 58

Physiological levels of β-amyloid increase tyrosine phosphorylation and cytosolic calcium
Y.Q. Luo, N. Hirashima, Y.H. Li, D.L. Alkon, T. Sunderland, R. Etcheberrigaray and B. Wolozin (USA) 65

Multiple types of binding sites for atrial natriuretic peptide in rat olfactory bulb membranes and synaptosomes
E. Haver, D. Lichtstein and P.J. Munson (Israel, USA) 75

Time course of hypothalamic growth hormone-releasing hormone and somatostatin content in streptozocin diabetic rats: evidence for early changes in hypothalamic regulation
J.W. Leidy, Jr., C.D. Cugini, Jr., H.K. Driscoll and B.S. Chertow (USA) 84

Sexual differences in vasopressin receptor binding within the ventrolateral hypothalamus in golden hamsters
Y. Delville and C.F. Ferris (USA) 91

Schwann cell responses to forskolin and cyclic AMP analogues: comparative study of mouse and rat Schwann cells
H. Yamada, A. Komiyama and K. Suzuki (USA, Japan) 97

Predegeneration enhances regeneration into acellular nerve grafts
N. Danielsen, J.M. Kerns, B. Holmquist, Q. Zhao, G. Lundborg and M. Kanje (Sweden, USA) 105

Dopamine D_4 receptors and effects of guanine nucleotides on [^{3}H]raclopride binding in postmortem caudate nucleus of subjects with schizophrenia or major depression
T. Sumiyoshi, C.A. Stockmeier, J.C. Overholser, P.A. Thompson and H.Y. Meltzer (USA) 109

Free D-serine in post-mortem brains and spinal cords of individuals with and without neuropsychiatric diseases
S. Kumashiro, A. Hashimoto and T. Nishikawa (Japan) 117

Muscimol induces state-dependent learning in Morris water maze task in rats
Y. Nakagawa, Y. Ishibashi, T. Yoshii and E. Tagashira (Japan) 126

Neovascularization of rat fetal neocortical grafts transplanted into a previously prepared cavity in the cerebral cortex: a three-dimensional morphological study using the scanning electron microscope
Y. Miyoshi, I. Date and T. Ohmoto (Japan) 131

Monoaminergic and cholinergic modulation of REM-sleep timing in rats
J.H. Benington and H.C. Heller (USA) 141

Kappa opioid inhibition of morphine and cocaine self-administration in rats
S.D. Glick, I.M. Maisonneuve, J. Raucci and S. Archer (USA) 147

Dopamine D_2-like receptors labeled by [^{3}H]YM-09151-2 in the rat hippocampus: characterization and autoradiographic distribution
C. Yokoyama, H. Okamura and Y. Ibata (Japan) 153

Diminished [^{3}H]inositol(1,4,5)P_3 but not [^{3}H]inositol(1,3,4,5)P_4 binding in Alzheimer's disease brain
A. Garlind, R.F. Cowburn, C. Forsell, R. Ravid, B. Winblad and C.J. Fowler (Sweden, Netherlands) 160

Inhibitory effects of dopamine and methylenedioxymethamphetamine (MDMA) on glutamate-evoked firing of nucleus accumbens and caudate/putamen cells are enhanced following cocaine self-administration
S.R. White, G.C. Harris, K.M. Imel and M.J. Wheaton (USA) 167

Behavioral consequences of neonatal injury of the neocortex
G.D. Rosen, N.S. Waters, A.M. Galaburda and V.H. Denenberg (USA) 177

(contents continued on p. 246)

0006-8993(19950529)681:1/2;1-9

(contents continued)

Short communications

Alteration of brain nicotinic receptors induced by immobilization stress and nicotine in rats
M. Takita and I. Muramatsu (Japan) 190
Impairment of long-term potentiation in rats fed with vitamin E-deficient diet
Z. Xie and B.R. Sastry (Canada) 193
Long-lasting conditioning of the human soleus H reflex following quadriceps tendon tap
J. Cheng, J.D. Brooke, W.R. Staines, J.E. Misiaszek and J. Hoare (Canada) 197
Sympathectomy does not modify the levels of dopa or dopamine in the rat dorsal root ganglion
A. Bertrand and J. Weil-Fugazza (France) 201
Expression of stereotyped behaviour requires stimulation of nigral D_1 dopamine receptors
C.Y. Lee, K.L. Double and A.D. Crocker (Australia) 205
Acute dopamine depletion potentiates independent stimulatory and inhibitory D_1 DA receptor-mediated control of striatal acetylcholine release in vitro
I.S. Login, K. Borland and M.B. Harrison (USA) 209
Mouse motor nerve terminal immunoreactivity to synaptotagmin II during sustained quantal transmitter release
D. Angaut-Petit, P. Juzans, J. Molgó, L. Faille, M.J. Seagar, M. Takahashi and Y. Shoji-Kasai (France, Japan) 213
Astroglia proliferate in response to oxytocin and vasopressin
R.L. Lucas and A.K. Salm (USA) 218
Crowding stress impairs the pituitary-adrenocortical responsiveness to the vasopressin but not corticotropin-releasing hormone stimulation
J. Bugajski, J. Borycz, R. Glod and A.J. Bugajski (Poland) 223
Immunohistochemical localization of neuropeptides in the human ciliary ganglion
W. Kirch, W. Neuhuber and E.R. Tamm (Germany) 229
Altered GABA distribution in hamster brain is an early molecular consequence of infection by scrapie prions
P. Lu, J.A. Sturman and D.C. Bolton (USA) 235

Author Index 243